

Atty. Docket No.: 25436/2345C PATENT  
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Sorge, et al.  
Serial No.: 10/734,563  
Filed: December 12, 2003  
Entitled: DNA POLYMERASE  
COMPOSITIONS FOR  
QUANTITATIVE PCR AND  
METHODS THEREOF

Examiner: Not Yet Assigned  
Group Art Unit: Not Yet Assigned  
Conf. No.: Not Yet Assigned

**CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8a**

I hereby certify that this correspondence (and any paper or fee referred to as being enclosed) is being deposited with the United States Post Office as First Class Mail on the date indicated below in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Brenda M. Woods

Name of Person Mailing Paper

*Brenda M. Woods*

Signature of Person Mailing Paper

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**TRANSMITTAL LETTER**

Enclosed for filing in the above-identified patent application, please find the following documents:

1. Information Disclosure Statement;
2. Form PTO-1449;
3. Copies of Cited References; and
4. Return Post Card.

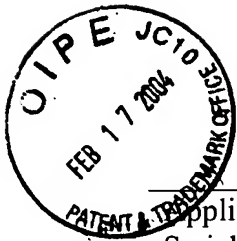
The Commissioner for Patents is hereby authorized to charge any fees to Deposit Account No. 16-0085, Reference 25436/2345C. A duplicate of this transmittal letter is enclosed for this purpose.

Respectfully submitted,

Date: February 12, 2004

*Mark J. FitzGerald*

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**INFORMATION DISCLOSURE STATEMENT  
UNDER 37 CFR §§ 1.56, 1.97 AND 1.98**

Dear Sir:

In accordance with the duty of disclosure under 37 CFR § 1.56, Applicant submits this Information Disclosure Statement pursuant to 37 CFR §§ 1.97 and 1.98 in the above-identified application for consideration by the Patent Office.

A listing of the cited documents, as well as, for the Examiner's convenience, copies of all foreign patent documents and non-patent literature are enclosed. This application was filed after June 30, 2003, and copies of U.S. patents and U.S. patent applications are not required and are not enclosed. In addition, a copy of the cited documents, numbers 5 and 13-20, were submitted to the U.S. Patent and Trademark Office in the parent application, U.S. Serial No. 10/408,601. Therefore, no copies are provided for references 5 and 13-20.

Pursuant to CFR § 1.97(b)(3), because this Statement is being submitted before the first Office Action on the merits, no fee is required.

Applicant does not intend to represent that any of the documents submitted herein are material prior art to this invention or that the list represents an exhaustive search of documents related to this invention.

Applicant respectfully requests that the documents submitted herein be considered and made of record in this application.

Date: February 12, 2004

Respectfully submitted,

*Mark J. Fitzgerald*

Name: Mark J. Fitzgerald

Registration No.: 45,928

Customer No.: 27495

Palmer & Dodge LLP

111 Huntington Avenue

Boston, MA 02199-7613

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USPTO Form 1449 U.S. Department of Commerce Patent and Trademark Office		Attorney Docket No. 25436/2345C		Serial No. 10/734,563	
INFORMATION DISCLOSURE STATEMENT		Applicant(s):. Sorge, et al.			
		Filing Date: December 12, 2003		Group: Not Yet Assigned	

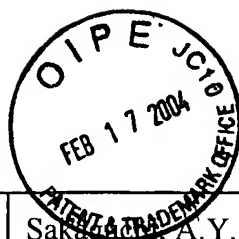
U.S. PATENT DOCUMENTS							
Examiner Initial		Patent No.	Date	Name	Class	Subclass	Filing Date (if appropriate)
	1.	6,607,883	Aug. 19, 2003	Frey, et al.	435	6	Feb. 8, 2001
	2.	6,395,526	May 28, 2002	Uemori, et al.	435	194	June 26, 1998
	3.	6,333,183 B1	Dec. 25, 2001	Evans, et al.	435	194	Nov. 17, 2000
	4.	5,489,523	Feb. 6, 1996	Mathur	435	194	Oct. 26, 1992

FOREIGN PATENT DOCUMENTS								
Examiner Initial		Document No.	Publication Date	Country	Class	Subclass	Translation	
							YES	NO
	5.	WO 01/92501 A1	Dec. 6, 2001	PCT	C12N	9/12	X	
	6.	EP 1 132 474 A1	Sept. 12, 2001	EP	C12N	15/52	X	
	7.	WO 01/23583 A2	Apr. 5, 2001	PCT	C12N	15/55	X	
	8.	EP 1 088 891 A1	Apr. 4, 2001	EP	C12N	15/55	X	
	9.	EP 0 693 078 B1	June 23, 1999	EP	C12N	15/54	X	
	10.	EP 0 922 765 A1	June 16, 1999	EP	C12N	15/31	X	
	11.	EP 0 870 832 A1	Oct. 14, 1998	EP	C12N	15/54	X	

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)	
12.	Arezi, B. et al., "Amplification efficiency of thermostable DNA polymerases", <i>Analytical Biochemistry</i> , 2003, 321:226-235.
13.	Fogg, M.J. et. al., "The Structural Basis for Template Strand Uracil Recognition by Archaeal DNA Polymerases", <i>FASEB Summer Research Conference</i> , poster abstract, June 2002, (20).
14.	Hogrefe, H.H. et al., "Archaeal dUTPase enhances PCR amplifications with archaeal DNA polymerases by preventing dUTP incorporation", <i>PNAS</i> , 2002, 99(2):596-601.
15.	Pavlov, A.R. et al., "Helix-hairpin-helix motifs confer salt resistance and processivity on chimeric DNA polymerases", <i>PNAS</i> , 2002, 99(21):13510-13515.
16.	Evans, S.J. et. al., "Improving dideoxynucleotide-triphosphate utilisation by the hyper-thermophilic DNA polymerase from the archaeon <i>Pyrococcus furiosus</i> ", <i>Nucleic Acids Research</i> , 2000, 28(5):1059-1066.
17.	Greagg, M.A. et. al., "A read-ahead function in archaeal DNA polymerases detects promutagenic template-strand uracil", <i>Proceedings of the National Academy of Sciences USA</i> , 1999, 96(16):9045-9050.



18.	Sakaguchi, A.Y. et al., "Cautionary Note on the Use of dUMP-Containing PCR Primers with <i>Pfu</i> and Vent <sub>R</sub> ® DNA Polymerases", 1996, <i>BioTechniques</i> , 21:368-370
19.	Slupphaug, G. et al., "Low Incorporation of dUMP by Some Thermostable DNA Polymerases May Limit Their Use in PCR Amplifications", 1993, <i>Anal. Biochem.</i> , 211:164-169.
20.	Longo, M.C. et al., "Use of uracil DNA glycosylase to control carry-over contamination in polymerase chain reactions", 1990, <i>Gene</i> , 93:125-128.
EXAMINER	
DATE CONSIDERED	
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.</p> <p>**Copies of references not provided at the time of this submission.</p>	